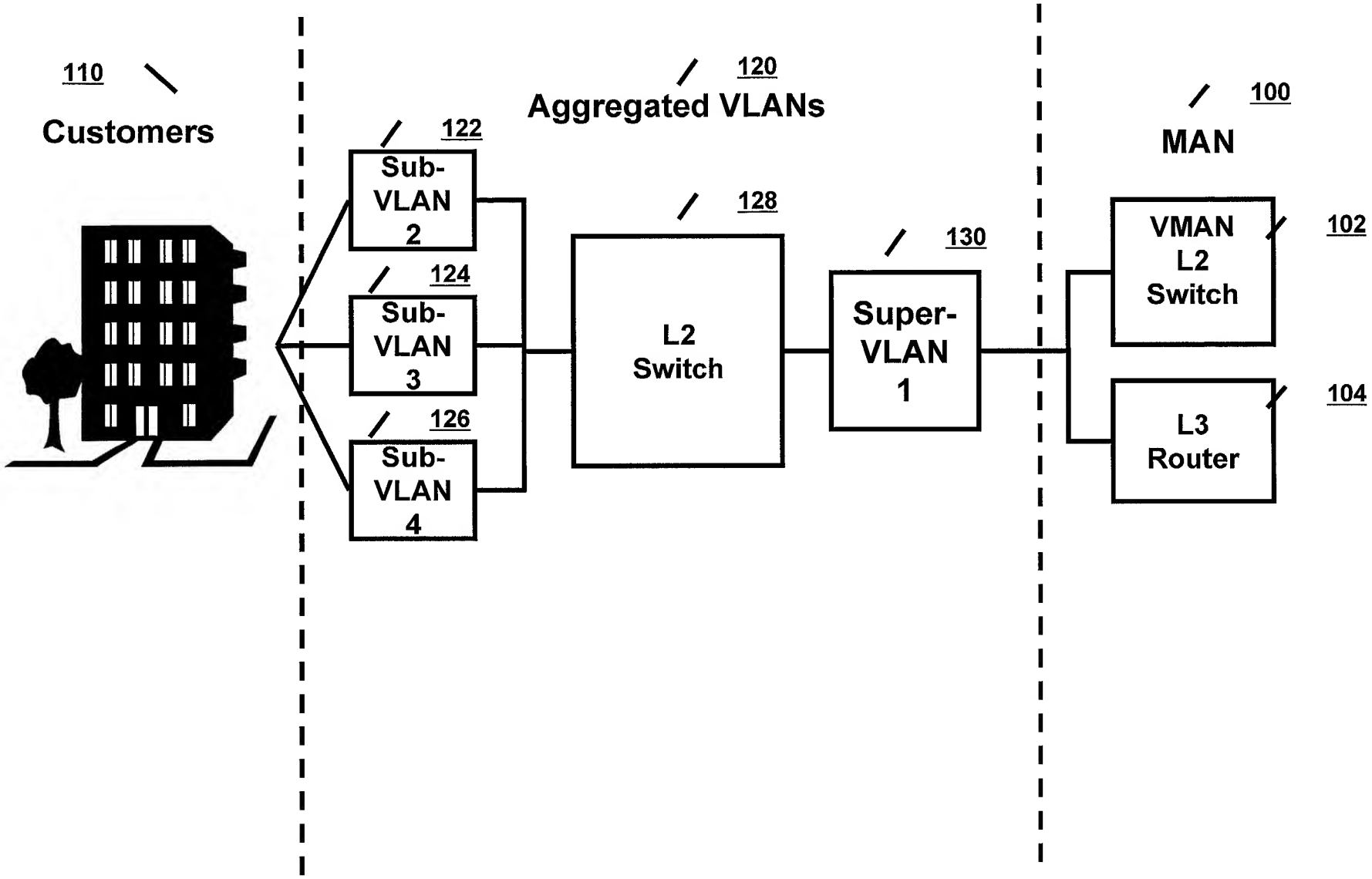

Fig. 1

09755498 .010501

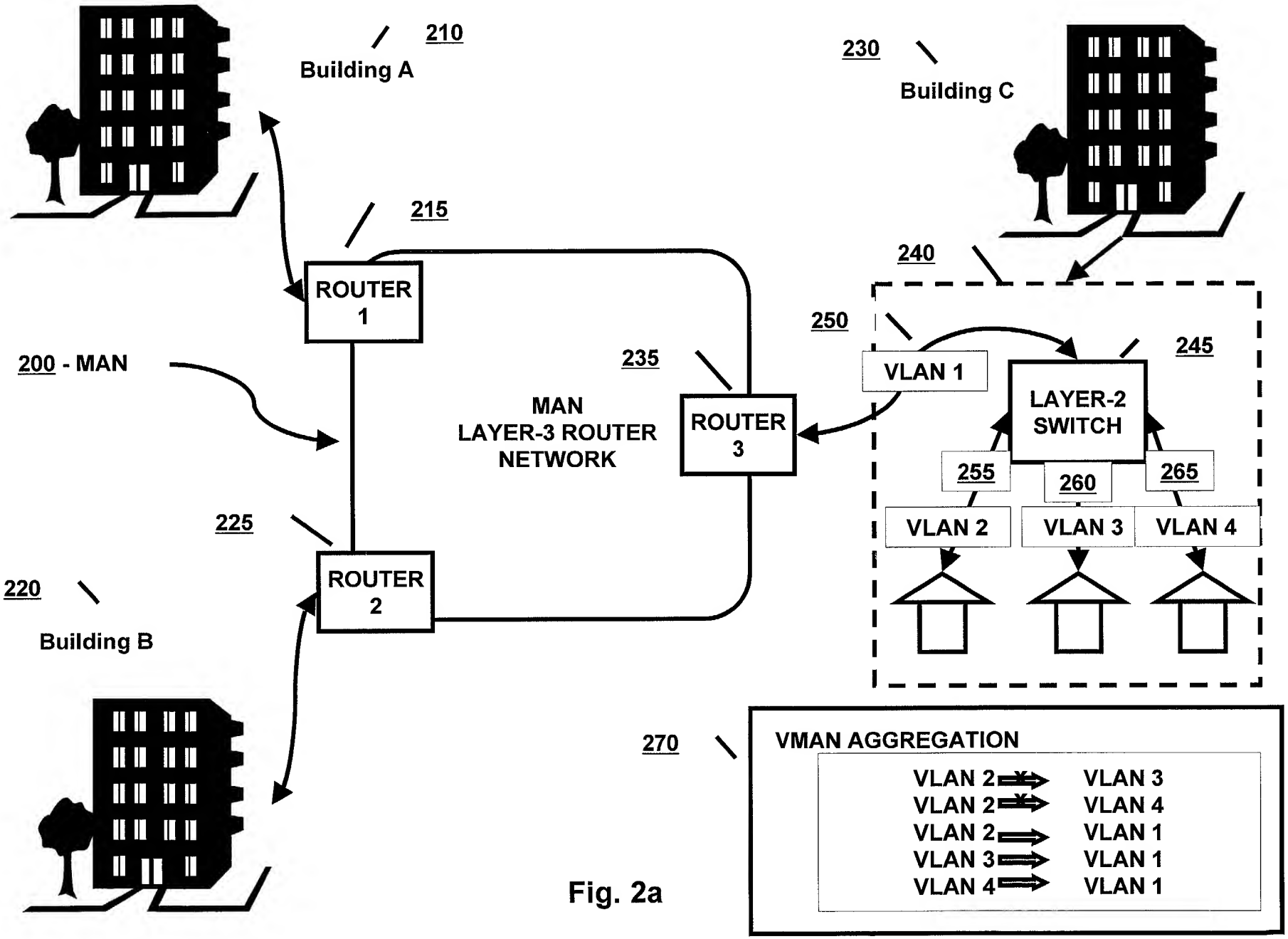
210
Building A
230
Building C
215
240
ROUTER 1
250
245
200 - MAN
235
VLAN 1
LAYER-2 SWITCH
MAN LAYER-3 ROUTER NETWORK
ROUTER 3
255
260
265
225
VLAN 2
VLAN 3
VLAN 4
ROUTER 2
220
Building B
270
VMAN AGGREGATION
VLAN 2 VLAN 3
VLAN 2 VLAN 4
VLAN 2 VLAN 1
VLAN 3 VLAN 1
VLAN 4 VLAN 1

Fig. 2a

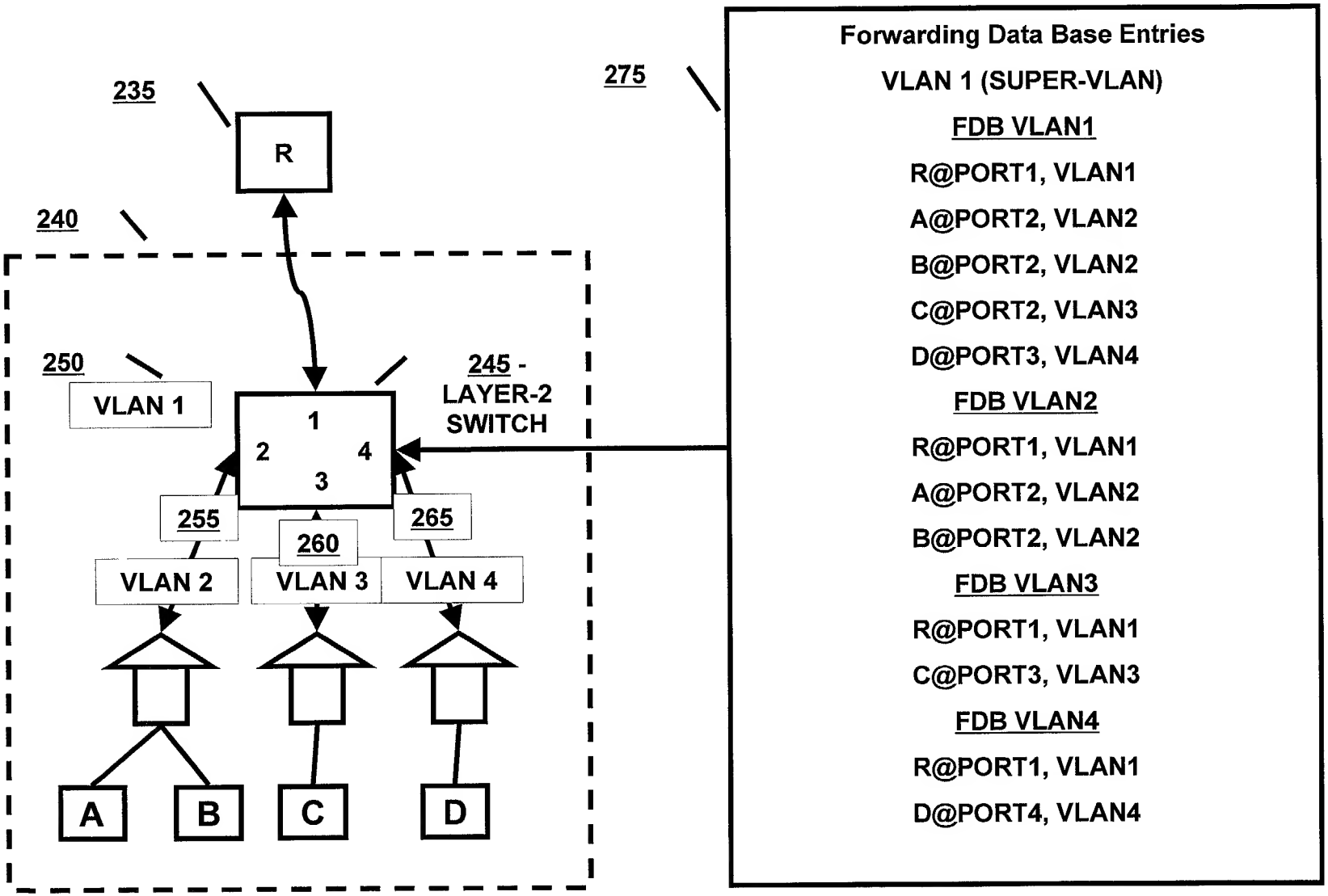
235
R
240
250
VLAN 1
245 - LAYER-2 SWITCH
1
2
4
3
255
260
265
VLAN 2
VLAN 3
VLAN 4
A
B
C
D
275
Forwarding Data Base Entries
VLAN 1 (SUPER-VLAN)
FDB VLAN1
R@PORT1, VLAN1
A@PORT2, VLAN2
B@PORT2, VLAN2
C@PORT2, VLAN3
D@PORT3, VLAN4
FDB VLAN2
R@PORT1, VLAN1
A@PORT2, VLAN2
B@PORT2, VLAN2
FDB VLAN3
R@PORT1, VLAN1
C@PORT3, VLAN3
FDB VLAN4
R@PORT1, VLAN1
D@PORT4, VLAN4

Fig. 2b